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Methionyl tRNA synthetase cloned DNA sequence [SEQ ID NO:1]

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1  ATGGCTAAG AAACATTTTA TATAACAACC CCAATATACT ATCCTAGTGG
51  GAAATTACAT ATAGACATG CATATTCTAC AGTGGCTGGA GATGTTAATTG
101 CAAGATATTAA GAGAATGCAA GGATATGATG TTCGTTATTT GACTGGAACG
151 GATGAACACG GTCAAAAAAT TCAAGAAAAA GCTCAAAAAAG CTGCTAAGAC
201 AGAAATTGAA TATTTGATG AGATGATTGC TGAATTAA CAATTGTGGG
251 CTAAGCTTGA AATTTCAAAT GATGATTTTA TCAGACAAC TGAAGACGT
301 CATTAACATG TCGTTGACGA AGTGTTGAA CGTTTATTAA AGCAAGGTGA
351 TATCTAATTTA GGTGAATATG AAGTTGGTA TTCTGTCCG GATGAACAT
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FIG 1

401 ACTATACAGA GTCACAATTA GTAGACCCAC AATACGAAA CGTTAAATTT
451 ATTGGTGCCA AAAGTCCAGA TTCTGGACAC GAAGTTGAAC TAGTTAAGA
501 AGAAAGTTAT TTCTTTAATA TTAGTAATA TACAGACCGT TTATTAGAGT
551 TCTATGACCA AATCCAGAT TTTATACAAC CACCATCAAG AAAAAATGAA
601 ATGATTAACA ACTTCATTAA ACCAGACTTT GCTGATTTAG CTGTTCTCG
651 TACATCATTT AACTGGGGTG TCCATGTCC GTCTAATCCA AAACATGTTG
701 TTTATGTTTG GATTGATCGG TTAGTTACT ATAATTCAGC ATTAGGCTAT
751 TTATCAGATG ATGATCACT ATTTAACAAA TACTGGCCAG CAGATATTC
801 TTTAATGGCT AAGGAAATG TCGATGCCA CTCAATTATT TGGCCTATTT

FIG 1A

851 TAATTGATGCC ATTAGACTTA CCGTTACCTA AAAAAGTCTT TGCACATGCT
901 TGGATTTTGA TGAAGATGG AAAAATGAGT AAATCTAAAG GTATGTTGT
951 AGACCCTAAT ATTTAATG ATCGCTATGG TTTAGATGCT ACACGTTATT
1001 ATCTAATGCG TGAATTACCA TTTGCTTCAG ATGGCGTATT TACACCTGAA
1051 GCATTTGTTG AGCGTACAAA TTTCGATCTA GCAAATGACT TAGGTACTT
1101 AGTAAACCGT ACGATTCTA TGGTTAATAA GTACTTTGAT GCGGAATTAC
1151 CAGCGTATCA AGGTCCACTT CATGAATTAG ATGAAGAAAT GGAAGCTATG
1201 GCTTTAGAAA CAGTGAAAG CTACACTGAA AGCATGGAAA GTTTGCAATT

FIG 1B

1251 TTCTGTGGCA TTATCTACGG TATGGAAGTT TATPACTAGA ACGAATAAGT
1301 ATATGTGACGA AACACGCCCT TGGGTATTAG CTAAGGACGA TAGCCAAAA
1351 GATATGTTAG GCAATGTAAT GGCTCACTTA GTTGAAAATA TTCGTTATGC
1401 AGCTGTATTA TTACGTCCAT TCTTAACACA TGGCCCGAAA GAGATTTTTC
1451 AACAAATTGAA CATAAACAAAT CCTCAATTTA TGAATTTAG TAGTTTAGAG
1501 CAATATGGTG TGCTTACTGA GTCAATTATG GTTACTGGGC AACCTAAACC
1551 TATTTTCCCA AGATTGGATA GCCAAGCGGA AATTGCATAT ATCAAGAAT
1601 CAATGCAACC GCCTGTCTACT GAAGAGGAAA AAGAAGAGAT TCCTAGCAAA
1651 CCTCAAAATTG ATATTAAAGA CTTGATAAA GTTGAAATTA AGCAGCAAC

FIG 1C

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1701 GATTATTGAT GCTGACATG TTAAGAAGTC AGATAAGCTT TTAATAATTTC
1751 AAGTAGACTT AGATTCTGAA CAAGACAAA TTGTATCAGG AATTGCCAAA
1801 TTCTATACAC CAGATGATAT TATTGGTAAA AAAGTAGCAG TTGTTACTAA
1851 CCTGAAACCA GCTAAATTAA TGGGACAAAA ATCTGAAGGT ATGATATTAT
1901 CTGCTGAAAA AGATGGTGTG TTAACCTTAG TAAGTTTACC AAGTGCAATT
1951 CCAATGGTG CAGTGATTAA ATAA

FIG 1D

Methionyl tRNA synthetase deduced amino acid sequence [SEQ ID NO:2]

1 MAKEFYITT PIYYPGNLH IGHAYTVAG DVIAKYKMQ GYDVRILTGT
51 DEHQKIQEK AQKAGKTEIE YLDEMIAGIK QLWAKLEISN DDFIRTEER
101 HKHVEQVFE RLLKQGDLYL GEYEGWYSVP DETYYTESQL VDPQYENGKI
151 IGGKSPDSGH EVELVKEESY FFNISKYTD R LLEFYDQNP D FIQPPSRKNE
201 MINNFIKPG L ADLAVSRTSF NMGVHPSPN KHVVYVWIDA LVNYISALGY
251 LSDDESLENK YWPADIHLMA KEIVRFHSII WPILLMALDL PLPKKVFAGH
301 WILMKDGKMS KSKGNVVDPN ILIDRYGLDA TRYILMREL P FGSDGVFTPE
351 AFVERTNFDL ANDLGNLVNR TISMVNKYFD GELPAYQG PL HELDEEMEAM
401 ALETVKSYTE SMESLQFSYA LSTVWKFI SR TNKYIDETTP WVLAKDDSQK

FIG 2

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451 DMLGNVMAHL VENIRYAAYL LRPELTHAPK EIFEQNLINN POFMEFSSLE
501 QYGVLTESIM VTGQPKPIFP RLDSEAEIAY IKESMOPPAT EEEKEEIPSK
551 PÖIDIKDFDK VEIKATIID AEHVKKSDKL LKIQVDLDSE QRQIVSGIAK
601 FYTPDDIIGK KVAVVTNLKP AKLMQKSEG MLSAEKDG V LTLVSLPSAI
651 PNGAVIK

FIG 2A